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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 876P146 James H. Keithly 9008 10/017,126 12/14/2001 **EXAMINER** 05/19/2005 26568 7590 COOK, ALEX, MCFARRON, MANZO, CUMMINGS & MEHLER LTD SAYALA, CHHAYA D **SUITE 2850** PAPER NUMBER **ART UNIT** 200 WEST ADAMS STREET CHICAGO, IL 60606 1761

DATE MAILED: 05/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati	on No.	Applicant(s)	
	10/017,1		KEITHLY ET AL.	
Office Action Summary	1		Art Unit	
	C. SAYAL		1761	
The MAILING DATE of this comm			<u> </u>	ess
Period for Reply				
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provis after SIX (6) MONTHS from the mailing date of this c - If the period for reply specified above is less than thir - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for r Any reply received by the Office later than three montearned patent term adjustment. See 37 CFR 1.704(b)	JNICATION. ions of 37 CFR 1.136(a). In no eventual or	ent, however, may a reply be ting tutory minimum of thirty (30) day ill expire SIX (6) MONTHS from dication to become ABANDONE	mely filed ys will be considered timely. the mailing date of this come ED (35 U.S.C. § 133).	munication.
Status		·		
1) Responsive to communication(s)	filed on 03 March 2005.		•	
2a)☐ This action is FINAL .				
3) Since this application is in conditi	,		osecution as to the n	nerits is
closed in accordance with the pra				
Disposition of Claims				
	26 28 20 and 21 20 into	ra nandina in tha ann!	ication	
4)⊠ Claim(s) <u>1,3,5-9,11,12,14-20,22</u> 4a) Of the above claim(s) i			icauUII.	
5) Claim(s) is/are allowed.	State withdrawn from co	nsideration.		
6) Claim(s) 1,3,5-9,11-12,14-20,22-	26 28-29 and 31-39 is/a	re rejected	•	
7) Claim(s) is/are objected to		ro rejected.	•	•
8) Claim(s) are subject to res		eauirement.		
		•		
Application Papers		•		•
9) The specification is objected to by			_	
10) The drawing(s) filed on is/a				
Applicant may not request that any o		- ·	· ·	
Replacement drawing sheet(s) included	•			
11) The oath or declaration is objected	u to by the Examiner. No	ote the attached Office	Action or form PTO	-152.
Priority under 35 U.S.C. § 119			·	
12) Acknowledgment is made of a cla	im for foreign priority un	der 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of	F:	·		•
1. Certified copies of the prior	ity documents have bee	n received.		
2. Certified copies of the prior	ity documents have bee	n received in Applicat	ion No	
3. Copies of the certified copie	es of the priority docume	ents have been receive	ed in this National St	age
application from the Interna	•	`		
* See the attached detailed Office ad	ction for a list of the certi	fied copies not receive	ed.	
	•			
Attachment(c)				
Attachment(s) 1) Notice of References Cited (PTO-892)		4) Interview Summary	(DTO 442)	
2) Notice of Draftsperson's Patent Drawing Review	v (PTO-948)	Paper No(s)/Mail D	•	
3) Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date	•	5) Notice of Informal F 6) Other:	Patent Application (PTO-1	52)
S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Action Summa	<u>.</u> гу Ра	art of Paper No./Mail Date	20050516

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 14-17, 32-33, 38-39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

These claims (14-17) depend from a cancelled claim.

Claim 1 has been amended to recite a citrus byproduct. Yet claim 12, which depends from it, recites a combination of by product *components*. It is unclear whether the by product components is in addition to the citrus by product of claim 1.

In claim 32, the feed supplement comprised of "hesperidin, limonin glucoside and citrus pectin" lacks antecedent basis. This is also true for claim 33.

Claims 38 and 39 recite placing citrus by product without extracting or purifying citrus by product from/in the citrus feed supplement. But claim 20 recites citrus by product particles. What do these claims mean?

Claim Rejections -35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3, 5-9, 11-12, 14-26, 28-29, 31-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deyoe et al. in view of Henderson et al. (US Patent 4560561) and Moore, Jr. (US Patent 5928403).

The reference teaches feeding broilers up to 2.5% bioflavanoids. Bioflavonoids are inherently present in citrus peels or any citrus byproduct, and is known to be a beneficial byproduct of such. (See specification). See page 1088 in the reference. The reference does not teach poultry being housed in confining spaces. However, it is well known that to produce broilers, poultry have to be housed in confining spaces, and therefore this is inherent. The reference does not show particles or that the pellet size. The specification also states that the flavonoids, food-grade acids, etc. occur naturally in citrus products. Henderson et al. teach pellets of feed supplement that comprise citrus molasses, in a size 1/16" in diameter. Moore shows that calculating feed conversions and ammonia volatilizations are also commonplace in poultry farming. It would have been obvious to one of ordinary skill in the art to extend such teachings in order to make such calculations, shown by prior art, when Deyoe is applied to poultry raising. To optimize particle feed size is also within the ambit of the skilled worker. As for the increase of HDL levels, it is well settled that a patent cannot be properly granted for [an invention] which would flow naturally from the

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teaching of the prior art. *American Infra-Red Radiant Co. v. Lambert Indus., Inc.*, 360 F.2d 977, 986 [149 USPQ 722 (CCPA 1958)),(8th Cir.) (quoting *Application of Libby*, 255 F.2d 412 [118 USPQ 194 (CCPA 1958)), *cert. denied*, 385 U.S. 920 [151 USPQ 757] (1966).

3. Claims 1, 3, 5-9, 11-12, 14-26, 28-29, 31-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boushy et al.¹ ("Poultry Feed from Waste", Chap. 6, pages 218-224, 1994) or Coleman et al.² (J. Agric. Food Chem., vol. 25(4), pages 971-73, 1977) or Eldred et al.³ (Nutr. Reports Intl., vol. 14, pages 139-145, 1976) in view of Henderson et al. (US Patent 4560561) and Moore, Jr. (US Patent 5928403).

At page 219, the reference 1 teaches up to 20% of citrus meal is beneficial. At page 221, the reference teaches that citrus pulp in levels higher than 7.5% is not beneficial to poultry. At page 222, feedstuffs comprising dried citrus pulp, for broilers at an inclusion level of 7.5% of the diet was beneficial. At page 223, citrus sludge at an amount less than 7.5% was useful when included in broiler diets.

Reference 2 teaches that broilers thrived with 0-20% dried citrus sludge, when the diet contained 7.5% or less of the sludge. See page 972, second col., last few lines.

The teaching in reference 3 is similar to reference 2. See abstract.

The references do not teach poultry being housed in confining spaces.

However, it is well known that to produce broilers, poultry have to be housed in

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confining spaces, and therefore this is inherent. The reference does not show particles or that the pellet size. The specification also states that the flavonoids, food-grade acids, etc. occur naturally in citrus products. Henderson et al. teach pellets of feed supplement that comprise citrus molasses, in a size 1/16" in diameter. Moore shows that calculating feed conversions and ammonia volatilizations are also commonplace in poultry farming. It would have been obvious to one of ordinary skill in the art to extend such teachings to make such calculations and combine this with the teaching of the primary references that show that the addition of citrus by products up to 7.5% in poultry feeds is beneficial, is applied to poultry raising. To optimize particle feed size is also within the ambit of the skilled worker. As for the increase of HDL levels, it is well settled that a patent cannot be properly granted for [an invention] which would flow naturally from the teaching of the prior art. American Infra-Red Radiant Co. v. Lambert Indus., Inc., 360 F.2d 977, 986 [149 USPQ 722 (CCPA 1958)),(8th Cir.) (quoting Application of Libby, 255 F.2d 412 [118 USPQ 194 (CCPA 1958)), cert. denied, 385 U.S. 920 [151 USPQ 757] (1966).

Response to Arguments

Applicant's arguments filed 3/3/05 have been fully considered but they are not persuasive.

The applicability of the Deyoe et al. reference has been explained in the previous Office action. The rejections are being maintained for the same reasons. The traversals in the paper filed 3/3/05 states that there is no

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information that teaches the "citrus bioflavonoids" tested according to that article are the same as the citrus byproduct particles....." In fact they are not the "same". But it is scientific knowledge that the bioflavonoids are found in citrus products in a natural state. See specification at page 11, last paragraph. See also instant claims 1 and 12. Whether the reference shows citrus products or just bioflavonoids, it suggests that bioflavonoids are useful in poultry diets, in any event. In a 35 USC 103 rejection, it is well established that a reasonable expectation of success, not absolute predictability is necessary for conclusion of obviousness, In re Longi, 225 USPQ 545, In re Morston, 1961 C.D. 330, In re Clinton, 188 USPQ 365, In re O'Farrell, 7 USPQ2d 1673, 1681 (Fed Cir 1988).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. SAYALA whose telephone number is 571-272-1405.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-

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C. SAYALA

Primary Examiner

Group 1700.